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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,792	09/29/2006	Holger Ratz	W1.2315 PCT-US	6721
Douglas R Har	7590 07/25/200	8	EXAM	IINER
Jones Tullar & Cooper			DESAI, HEMANT	
P O Box 2266 Eads Station			ART UNIT	PAPER NUMBER
Arlington, VA	22202		3721	
			MAIL DATE	DELIVERY MODE
			07/25/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/594,792	RATZ, HOLGER	
Examiner	Art Unit	
Hemant M. Desai	3721	

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The MAII Period for Reply	LING DATE of this communic	ation appears on the o	cover sheet with the o	correspondence ad	dress
WHICHEVER IS - Extensions of time r after SIX (6) MONTI - If NO period for repl - Failure to reply with Any reply received t	D STATUTORY PERIOD FO S LONGER, FROM THE MA may be available under the provisions of HS from the mailing date of this commu ly is specified above, the maximum statu in the set or extended period for reply w by the Office later than three months aff adjustment. See 3' CPR 1.704(b).	ILING DATE OF THIS 37 CFR 1.136(a). In no event nication. Itory period will apply and will of ill, by statute, cause the applic	S COMMUNICATION t, however, may a reply be tire expire SIX (6) MONTHS from ation to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	
Status					
2a) This actio	ve to communication(s) filed n is FINAL. 2t application is in condition for accordance with the practice	o)⊠ This action is not or allowance except fo	or formal matters, pro		merits is
Disposition of Clai	ims				
4) Claim(s) 4 4a) Of the 5) Claim(s) 6 Claim(s) 7	22-32 and 34 is/are pending above claim(s) is/are is/are allowed. 22-32 and 34 is/are rejected is/are objected to are subject to restricti	withdrawn from cons			
Application Papers	s				
10) The drawing Applicant in Replacement	ication is objected to by the ng(s) filed on is/are: a nay not request that any object ent drawing sheet(s) including to or declaration is objected to I	a) accepted or b) to the drawing(s) be the correction is required	held in abeyance. Se I if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF	
Priority under 35 L	J.S.C. § 119				
12)⊠ Acknowled a)⊠ All b)[1.□ Cer 2.□ Cer 3.⊠ Cop	dgment is made of a claim fo Some * c) ☐ None of: titfied copies of the priority d titfied copies of the priority d pies of the certified copies of blication from the Internation.	ocuments have been ocuments have been the priority documen al Bureau (PCT Rule	received. received in Applicatits have been received 17.2(a)).	ion No ed in this National	Stage
* See the atta	ached detailed Office action	for a list of the certific	ed copies not receive	ed.	

Attachment(s)

1) X	Notice of References Cited (PTO-892)
	Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTC/S6r08)
Paper No(s)/Mail Date

4)	Interview Summary (PTO-413) Paper No(s)/Mail Date.
	Notice of Informal Patent Appli
6)	Other:

Part of Paper No./Mail Date 20080721

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/10/2008 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadtived by the manner in which the invention was made.
- Claims 22-23 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over German reference (1211212) in view of Bialek et al. (5267935).

German reference discloses a product folding apparatus comprising a transport track (10) adapted to transport a product (12) and having a transport track drive mechanism (since the transport device is transporting the product-12, drive-motor is inherent), a longitudinal folding apparatus (34) connected to the transport track and adapted to receive the product from the transport track and to fold the product longitudinally in the product transport direction, a vertically reciprocating folding blade (34) in the longitudinal folding apparatus, a folding table (inherent part of the invention)

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supporting the folding blade, a folding blade drive motor (30) usable to raise and lower the folding blade with respect to the folding table through a folding blade drive mechanism and the folding blade drive motor being controlled independently of the transport track drive mechanism, a folding blade drive motor control device (46), and a product sensor (12) arranged adjacent to the folding blade, the product sensor controlling the folding blade drive motor (see fig. 1), which meets all the claimed limitations. Note that "and being....direction (claim 1, lines 3-4), "to fold....direction;" (claim 1, lines 6-7), is intended use and it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Mahsam, 2 USPQ2d 1647 (1987).

German reference ('212) discloses the sensor to synchronize the vertical reciprocation of the folding blade by detecting the product velocity. German reference does not disclose to synchronize the vertical reciprocation of the folding blade by measuring the product phase relation. However, Bialek et al. disclose that it is known in the art of longitudinal folding machine to synchronize the folding blade by measuring the product phase relation (see col. 4, lines 15-19). Therefore, the substitution of one known element (synchronizing the vertical reciprocation of the folding blade by measuring the product phase relation) for another (synchronize the vertical reciprocation of the folding blade by measuring by detecting the product velocity) would have been obvious to one of ordinary skill in the art at the time of the invention since the substitution of the synchronization of the folding blade by measuring the product phase relation shown in

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Bialek et al. would have yielded predictable results, namely, synchronizing of folding blade in German reference to fold the product at proper time.

Regarding claim 23, German reference discloses a folding blade support lever (32, fig. 1) pivotably attached to the folding table.

Regarding claim 33, the modified German reference teaches that the product sensor is usable to synchronize movement of the folding blade with the product phase relation.

 Claims 24-29 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over German reference (1211212) and Bialek et al. as applied to claim 1 and further in view of Fischer et al. (4269402).

The modified German reference ('212), as mentioned above, discloses all the claimed limitations, except for a slow down buffer. Fischer et al. tech a longitudinal folding machine having vertically reciprocating blade (4, fig. 1) to provide longitudinal fold in the printed product. Fischer et al. teach a sallow down buffer (strand 8, fig.1) running a reduce speed to slow down the printed product before it hits the stop (6, fig. 1) to prevent damage to the products, danger of recoiling and to guarantee a mode of operation more gentle and protective with simultaneous high production accuracy (see col. 2, lines 2-7). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the slow down moving buffer (endless belt) as taught by Fischer et al. in the product folding apparatus of German Patent ('212) to slow down the printed product before it hits the stop to prevent damage

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to the products, danger of recoiling and to guarantee a mode of operation more gentle and protective with simultaneous high production accuracy.

Regarding claim 34, the modified German reference discloses the product sensor is usable to synchronize the movement of the buffer using the product phase relationship.

Claims 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 German reference (1211212) and Bialek et al. as applied to claim 1 and further in view
 of German reference (19802995).

The modified German reference ('212), as mentioned above, discloses all the claimed limitations, except for a shunt arranged to selectively supply products. However, German Patent ('995) discloses that it is well known in the art to provide a shunt (5, 28, see fig. 1) to selectively supply products (10) for further processing. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the shunt as taught by German Patent ('995) in the product folding apparatus of German Patent ('212) to selectively supply products for further processing.

Regarding claims 31-32 the German Patent ('995) teaches that a shunt drives mechanism (6, fig. 2) and a shunt drive mechanism control device (24, fig. 2) and further including a shunt sensor (19) located before the shunt and usable to actuate the shunt drive mechanism control device.

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Response to Arguments

Applicant's arguments with respect to claims 22-32 and 34 have been considered but are moot in view of the new ground(s) of rejection.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hemant M. Desai whose telephone number is (571)
 272-4458. The examiner can normally be reached on 6:30 AM-5:00 PM, Mon-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I. Rada can be reached on (571) 272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hemant M Desai/ Primary Examiner, Art Unit 3721